

Claim Listing

1.-24. Previously Canceled.

25. (Previously and Currently Amended.) A method for protecting a material from tick or cockroach infestation, comprising treating the material with an effective amount of a compound selected from the group consisting of ~~nootkatone, α -cedrene,~~ zizanol, and bicyclovetivenol, wherein the treated material repels ~~or kills~~ ticks or cockroaches substantially more than does an otherwise identical material that has not been treated with the compound.

26. A method as in Claim 25, wherein the treated material repels ticks.

27. Cancelled.

28. A method as in Claim 25, wherein the material is selected from a group consisting of soil, synthetic polymers, diatomaceous earth, sand, and cellulose-containing materials.

29. Cancelled.

30. Cancelled.

31. A method as in Claim 25, wherein the compound is zizanol.

32. A method as in Claim 25, wherein the compound is bicyclovetivenol.

33. A method as in Claim 25, additionally comprising treating the material with one or more additional, different compounds selected from the group consisting of nootkatone, α -cedrene, zizanol, and bicyclovetivenol.

34. - 46. Previously Cancelled.

47. (Currently amended) A method to protect topical composition for application to the skin or fur of a mammal for protection against ticks, said method comprising topically applying to the skin or fur a composition comprising an effective amount of a compound selected from the group consisting of nootkatone, α -cedrene, zizanol, and bicyclovetivenol, and a pharmaceutically accepted carrier, wherein said composition when applied topically repels or kills ticks substantially more than does an otherwise identical composition that lacks the compound.

48. (Currently amended) A method composition as in Claim 47, wherein said compound is nootkatone.

49. (Currently amended) A method composition as in Claim 48, wherein the concentration of nootkatone in said composition is between about 10 $\mu\text{g/g}$ and about 1000 $\mu\text{g/g}$.

50. (Currently amended) A method composition as in Claim 48, wherein the concentration of nootkatone in said composition is between about 10 $\mu\text{g/g}$ and about 200 $\mu\text{g/g}$.

51. (Currently amended) A method composition as in Claim 47, wherein said compound is zizanol.

52. (Currently amended) A method composition as in Claim 47, wherein said compound is bicyclovetivenol.

53. Cancelled.

54. (Currently amended) A method composition as in Claim 47, additionally comprising a composition with a one or more additional, different compounds selected from the group consisting of nootkatone, α -cedrene, zizanol and bicyclovetivenol.

55. - 74. Previously Cancelled.

75. (Previously added) A method as in Claim 25, wherein the treated material repels cockroaches.

76. (New) A method for protecting a material from tick infestation, comprising treating the material with an effective amount of nootkatone, wherein the treated material repels ticks substantially more than does an otherwise identical material that has not been treated with nootkatone.

77. (New) A method as in Claim 76, wherein the material is selected from a group consisting of soil, synthetic polymers, diatomaceous earth, sand, and cellulose-containing materials.

78. (New) A method as in Claim 76, additionally comprising treating the material with one or more additional, different compounds selected from the group consisting of nootkatone, α -cedrene, zizanol, and bicyclovetivenol.

79. (New) A method for protecting a material from cockroach infestation, comprising treating the material with an effective amount of α -cedrene, wherein the treated material repels cockroaches substantially more than does an otherwise identical material that has not been treated with α -cedrene.

80. (New) A method as in Claim 79, wherein the material is selected from a group consisting of soil, synthetic polymers, diatomaceous earth, sand, and cellulose-containing materials.

81. (New) A method as in Claim 79, additionally comprising treating the material with one or more additional, different compounds selected from the group consisting of nootkatone, α -cedrene, zizanol, and bicyclovetivenol.